



SEMS DocID

657601

**EPA REGION 1 SUPERFUND PROGRAM
TRIP REPORT/CHECKLIST**

Inspection Information

Site Name: Roy Bros Haulers

Address: 764 Boston Road

Town: Billerica

State: Massachusetts

CERCLIS No.: MAD009870643

TDD No.: 95-06-0006

Date of Inspection: 9/20/95

Time of Inspection: 0900 - 1300 hrs

Weather Conditions: Overcast, mid-50s temperatures

Date of Sampling Trip: 12/19/95 **Time of Sampling Trip:** 0730 - 1600 hrs

Weather Conditions: Overcast, below freezing temperatures

Site Status at Time of Inspection:

☒ **ACTIVE** ☐ **INACTIVE**

☐ **ABANDONED**

Comments: The Roy Bros Haulers (Roy Bros) property consists of an active chemical hauling operation, sparsely vegetated areas of former hazardous waste disposal and burn areas, and tanker and scrap storage locations.

Personnel Performing Inspection

	<u>Names</u>	<u>Program</u>
<input type="checkbox"/> EPA:		
<input checked="" type="checkbox"/> EPA Contractor:	Mr. Jack Padden	START
	Mr. Joseph Schmidl	START
	Mr. Michael Wagner	START
<input checked="" type="checkbox"/> State:	Ms. Nancy Fitzpatrick	MA DEP
<input checked="" type="checkbox"/> Other:	Mr. Bartlett Paulding	Paulding Company, Inc.

Site Ownership-Current Owner

Name: Roy Bros Inc.

Phone: (508) 667-1921

Address: 764 Boston Road

Billerica, MA 01866

TRIP REPORT

Site Visit: Brief Chronology

20 September 1995 - On-Site Reconnaissance

- 0830 hours: Roy F. Weston, Inc., Superfund Technical Assessment and Response Team (START) personnel, Mr. Jack Padden and Mr. Joseph Schmidl, departed the START office in Burlington, MA.
- 0900 hours: START member Mr. Padden met with Messrs. Leo and Maurice Roy of Roy Bros, Mr. Bartlett Paulding of the Paulding Company, and Ms. Nancy Fitzpatrick of Massachusetts Department of Environmental Protection (MA DEP). The meeting occurred in the Roy Bros office. Issues discussed included the purpose of the site visit and the site history. START member Mr. Schmidl calibrated air monitoring instruments.
- 1000 hours: Messrs. Roy, Mr. Paulding, Ms. Fitzpatrick, and START personnel conducted an on-site reconnaissance of the property including paved and unpaved portions and potential source areas.
- 1100 hours: Mr. Maurice Roy and START personnel continued on-site reconnaissance of the building and inspected all on-site monitoring wells.
- 1300 hours: START personnel packed instruments and departed from the Roy Bros property.
- 1310 hours: START personnel reviewed town files at the Billerica Town Hall.
- 1400 hours: START personnel returned to START office.

TRIP REPORT

Site Visit: Brief Chronology

19 December 1995 - Field Sampling

- 0730 hours: START personnel Mr. Padden and Mr. Mike Wagner departed the START office.
- 0740 hours: START personnel arrived at Roy Bros facility. Met with Messrs. Leo and Arthur Roy of Roy Bros to inform them of START's arrival and to discuss the sampling event.
- 0800 hours: START personnel set up sample staging and equipment decontamination areas on an unpaved portion of the property adjacent to nearby wetland area, decontaminated sampling equipment, and calibrated air monitoring instruments.
- 0830 hours: Mr. Bart Paulding of the Paulding Company arrived on site to accompany START personnel during field sampling.
- 0915 hours: START personnel conducted sampling activities. All sampling activities were conducted in accordance with the approved Task Work Plan dated 17 November 1995 with the exception of the locations of sample stations SD-07 and SD-08 which were altered to further determine the extent of migration of hazardous materials into the wetland.
- 1315 hours: START member Wagner dismantled the sample staging area and loaded the truck. START member Padden prepared the samples for transport, located sample stations using a compass and tape measure, and photodocumented each location.
- 1545 hours: START personnel met with Messrs. Roy and Mr. Paulding to transfer the split samples and inform them that the sampling had been completed. Mr. Paulding received and signed for the samples.
- 1600 hours: START personnel departed from the Roy Bros facility.

TRIP REPORT

Site Characteristics

Quantities/Extent/Details

() Cylinders:

(✓) Drums:

Temporary Drum Storage Area - Eleven 55-gallon drums were located within the building. The drums were stored undercover on wooden pallets on an impervious concrete floor. The inventory of the storage area revealed the following: three 55-gallon drums of methyl ethyl ketone, two 55-gallon drums of ethyl acetate, four 55-gallon drums of sulfuric acid, and two 55-gallon drums of caustic potash.

(✓) Lagoons:

Former Eastern Infiltration Lagoon - A former lagoon area was located east of the building on the currently unpaved portion of the property.

Former Western Infiltration Lagoon - A former lagoon area was located the southwest of the building in the general location of an existing diesel fuel underground storage tank (UST).

(✓) Tanks: (✓) Above-ground:

Hazardous Waste AST - A 5,500-gallon tanker was located north of the building.

(✓) Below ground:

Diesel Underground Storage Tank - A 25,000-gallon diesel UST was located off the southwest corner of the building.

() Asbestos:

TRIP REPORT

Site Characteristics (Concluded)

☐ Piles:

☒ Stained Soil:

Sandblasting Area - A 4,400 square foot area of blackened soil was observed south of the former eastern infiltration lagoon. The area was reportedly the recent location for a short-term sandblasting operation.

☐ Sheens:

☒ Stressed Vegetation:

Eastern Portion of Property - The eastern portion of the property was unpaved and utilized as storage area for scrap and tanker trucks. Approximately 1 acre of stressed vegetation was observed.

☐ Landfill: ☐ Leachate seeps

☒ Population in Vicinity: Fifty full-time employees of Roy Bros. Approximately 420 people reside within a quarter-mile radius.

☒ Distance to nearest residence: 210 feet south of former western infiltration lagoon - Lot 26 Plate 90 of the Billerica Tax Assessor's Map.

☒ Land use: ☐ Industrial ☒ Commercial ☒ Residential
 ☐ Rural ☐ Agricultural

☒ Wells:

☐ Drinking:

☒ Monitoring: Seven monitoring wells exist on the Roy Bros property. Six of the seven wells were located and inspected during the START on-site reconnaissance.

☐ Other:

TRIP REPORT

On-site/Off-site Receptors

Comments/Details

(✓) Drinking Water

(✓) **Private:** According to the Billerica Board of Health, no private wells are located within 1 mile of the property. Within 4 miles of the property, an estimated 1,686 people use private wells.

(✓) **Municipal:** The nearest public well to the facility is located (b) (9) of the property. Within 4 miles of the facility, an estimated 17,508 people are served by public wells. The Burlington Water Department operates an intake on the Shawsheen River located approximately 1.47 miles downstream of the Roy Bros property. The intake empties into the Mill Pond Reservoir which provides 80 % of the residents of Burlington with drinking water.

(✓) **Groundwater:** According to Paulding, the regional direction of groundwater flow across the Roy Bros property is toward the east. Based on groundwater elevations collected by Paulding in July of 1986, the localized groundwater flow across the property is east.

(✓) **Unrestricted Access:** The property is easily accessible to the public. No visible security measures exist. The neighboring wetlands and a wooded area provide natural barriers to access along the eastern and northern boundaries of the property, respectively.

(✓) **Population in Proximity:** An estimated 416 people reside within a quarter-mile radius of the property.

(✓) **Sensitive Ecosystem:** Wetlands and fisheries occur along the Shawsheen River.

() **Other:**

TRIP REPORT

Site Observations/Concerns

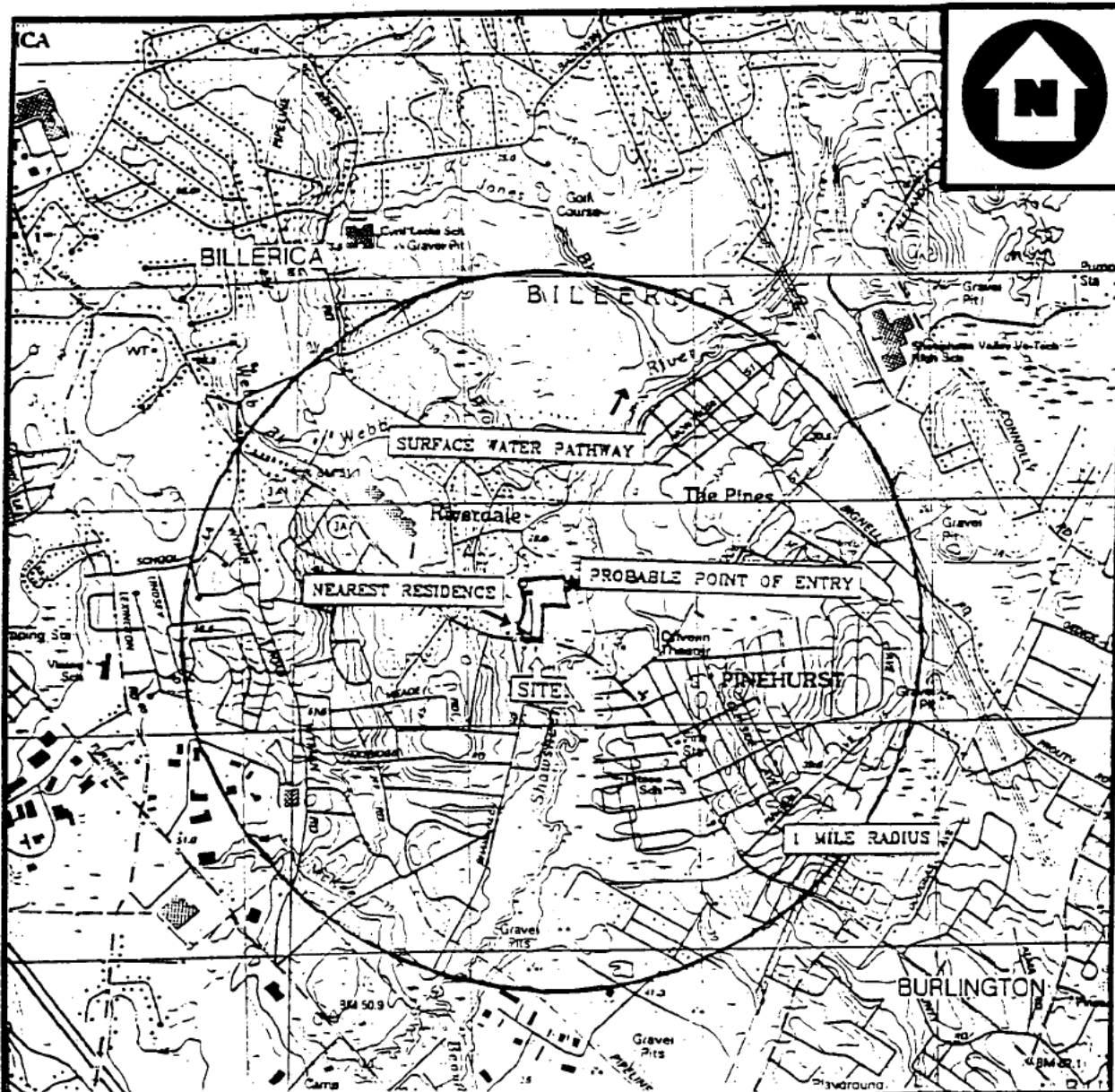
On-Site Reconnaissance

Roy Bros is owned by Messrs. Leo, Arthur, and Maurice Roy. The 4.4-acre property consists of an active chemical hauling operation; sparsely vegetated areas of former hazardous waste disposal and burn areas; and tanker and scrap storage locations. One building is located on the property (Figure 1 and 2).

The single-story, concrete building housed the Roy Bros offices, two truck rinsing bays, a garage bay for truck repairs, and the on-site waste treatment facilities. The waste treatment facilities consisted of two holding tanks, two oil separators, a filtration tank, and a deionizing filter. The clamshell of a backhoe was used to catch the effluent sludge removed by the deionizing filter, and this sludge was disposed of by a hazardous waste hauler. In the rinsing bays, floor drains collected the washwater and excess detergent and routed it through the treatment process. Two fire cabinets containing 15 to 20, 1-gallon paint cans were located in the building. The temporary drum storage area was also located within the building. The inventory of the storage area revealed the following: three 55-gallon drums of methyl ethyl ketone, two 55-gallon drums of ethyl acetate, four 55-gallon drums of sulfuric acid, and two 55-gallon drums of caustic potash. The drums were stored undercover on wooden pallets on an impervious concrete floor. Potential spills were contained by an impervious, 2-inch wide trough. The contents of the trough flowed into the rinsing bays where it was directed through the treatment system.

From the southern property boundary extending to the southern side of the building, a 100-foot wide strip of property was paved and used for temporary storage of tankers. The paved area continued around the eastern and northern sides of the building. These paved areas extended approximately 50 feet from the building. Empty tankers lined the eastern edge of the property. These tankers were stored off the paved area. Stressed vegetation existed beneath the tankers. During previous inspections by MA DEP, several tankers served as bulk storage of leftover tank residue (heels) and effluent sludge. This practice was reportedly discontinued in 1985.

North of the building, an empty tanker served as an above-ground storage tank (AST) for heels. The AST was a double-walled tank with several exterior panels rusting off. Only two sides of the AST displayed proper labels for hazardous waste storage. Several dents in the sides of the AST were visible. The AST was raised on blocks within an uncovered steel moat. The area of the steel moat was 525 square feet. Within the moat, standing water had a stained red tint. An open drainage pipe outfall was located at surface level in the northwest corner of the moat. An approximately one square foot (ft²) area of stained soil was observed adjacent to the outfall pipe.



BASE MAP IS A PORTION OF THE FOLLOWING 7.5 X 15' U.S.G.S. QUADRANGLE(S):
 BILLERICA, MASS. 1987; READING, MASS. 1987.



LOCATION MAP

Roy Bros Haulers
 764 Boston Road
 Billerica, Massachusetts

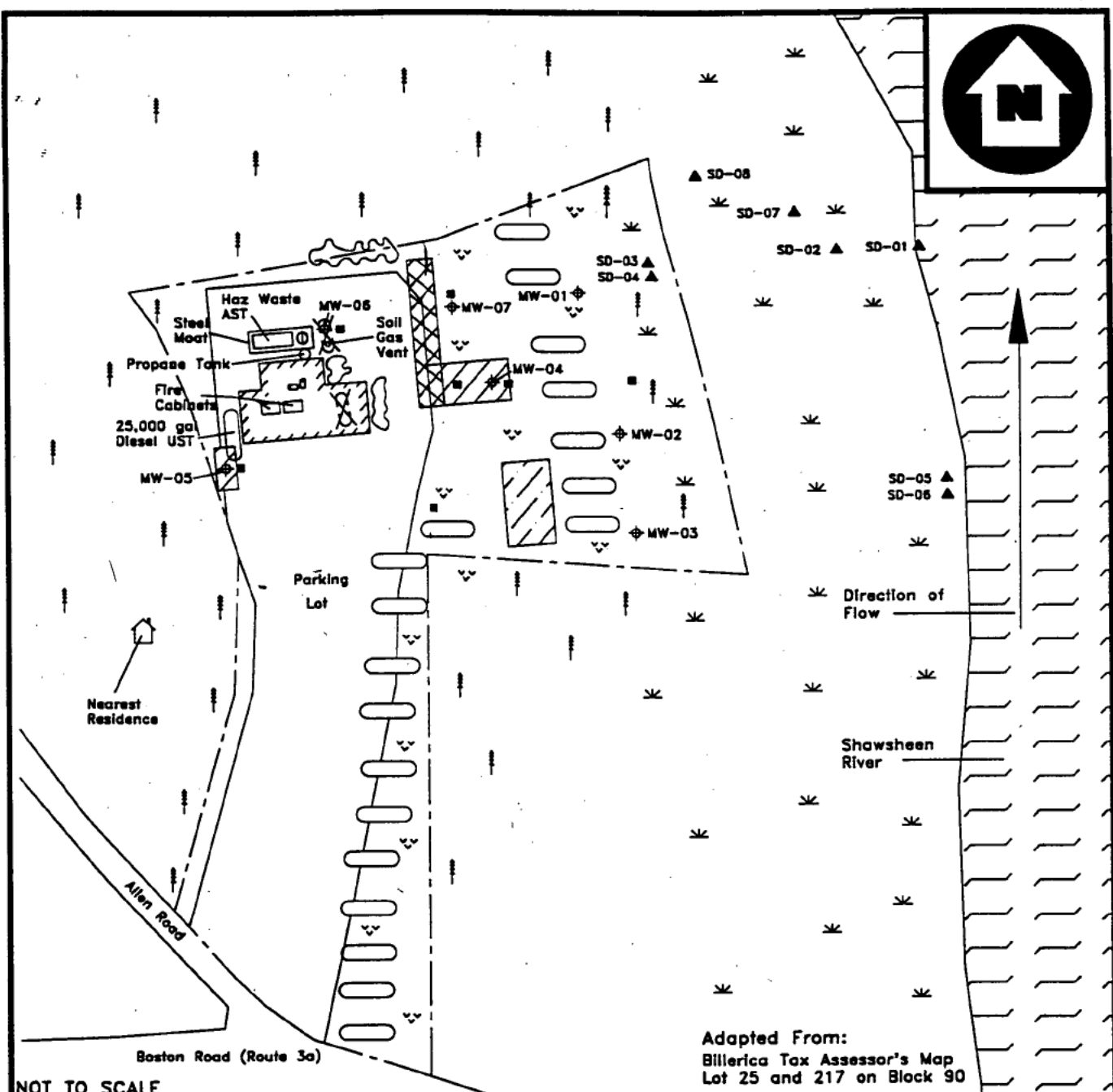


REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TOO # 95-6-0006	DRAWN BY: J. Padden	DATE 10/23/95
--------------------	------------------------	------------------

FILE NAME:
RoyBrosLoc.dwg

FIGURE 1



NOT TO SCALE

Adapted From:
Billerica Tax Assessor's Map
Lot 25 and 217 on Block 90

	Tanker Truck		Woods		Scrap Pile		Property Line
	Former Drywell		Grass		Former Surface Impoundment		Burn Area
	MONITORING WELL (SCREENED IN OVERBURDEN)		Wetlands		Sandblasting Area		55-GALLON DRUMS
	START Sediment Sample Location		Pauling Soil Sample Location		FORMER UST LOCATION		

SITE MAP

Roy Brothers Haulers
764 Boston Road
Billerica, MA



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD # 95-06-0006	DRAWN BY: J. Padden	DATE 12/29/95
FILE NAME: ROYBROS.DWG		FIGURE 2

TRIP REPORT

Site Observations/Concerns (Continued)

An approximately 1,440 ft² area of blackened surficial soil was observed south of the former eastern lagoon area. This area was reportedly the recent location for a short-term sandblasting operation. A old trailer north of the building contained bags of "Black Beauty", a sand blasting material. The constituents of the blackened soil and "Black Beauty" are unknown.

START personnel observed six of seven monitoring wells located on the property. Monitoring wells 1, 2, 3, 4, and 5 were installed in May of 1986 by Guild Drilling Co., Inc. The monitoring wells were installed to a maximum depth of 27 feet. The maximum depth to the aquifer was determined by Paulding to be 7 feet. According to Paulding, the direction of groundwater flow was estimated to be to the east. Wells 1, 2, and 3 were located adjacent to the abutting wetlands along the eastern border of the property. Wells 1 and 2 have flushmounts, and seals appeared to be in questionable condition. The exact location and present condition of well 3 could not be determined. Well 4 is positioned in the location of the former eastern lagoon area. Well 5 is located in the vicinity of the former western lagoon area and is in poor condition. Wells 6 and 7 were installed in the spring of 1995. Well 6 is located east of the moat approximately 15 feet north of the building. Well 6 was locked and appeared in good condition. Near well 6, two soil gas pit vents extend out of the ground. A steel cover provides shelter to the two vents. Well 7, located in a reported downgradient direction from well 6, was locked and appeared in good condition.

Several potential sources of contamination were previously located on the property: two former lagoon areas, two former locations of a fuel underground storage tank (UST), a former "burn area", a former hazardous waste storage area, a former pile of cemented sludge, and three former ASTs.

One former 6,000 ft² infiltration lagoon was located east of the building. The other former infiltration lagoon was approximately 1,200 ft² and was located off the southwest corner of the building in the location of an existing diesel fuel UST. Both lagoons were currently covered with backfill and stressed vegetation.

A former 4,000-gallon UST was located on the property. This UST was originally located beneath the building and then moved to a location north of the building. This UST was reportedly removed in 1975.

The former 5,600 ft² "burn area" was located between the building and the former eastern lagoon. In this area, debris ranging from oil filters to office supplies were deposited into a trench and burned. The disposal period to this source is unknown. The area was presently covered with pavement and backfill.

TRIP REPORT

Site Observations/Concerns (Continued)

A former hazardous waste storage area was previously located within the building. Approximately two dozen drums were reportedly observed in the vicinity of the two wash bays. The drums were located on an impervious concrete floor. The use of this storage area was reportedly discontinued in 1985.

A former pile of cemented sludge was reportedly previously located in the vicinity of the former easterly-located lagoon. The pile was originally observed on the property in 1980. No cemented sludge pile was observed on the property during the on-site reconnaissance. The removal date for this pile is unknown.

Former junked tanker trucks served as ASTs for the storage of sludge waste. These former ASTs were located on the property during previous site investigations conducted by the MA DEP. No evidence was observed indicating that Roy Bros presently uses these tankers for storage of hazardous materials.

The property is easily accessible to the public. No visible security measures exist. The neighboring wetlands provide a natural barrier to access on the northern and eastern boundaries of the property. The nearest residence to the property is located on the western boundary of the property, approximately 210 feet southwest of the former western lagoon area. The nearest school is the Ditson School located on Boston Road approximately 0.6 miles southeast of the property.

Based on the topography of the property, the overland flow from the property flows east from the former source areas to adjacent wetlands, through a marsh, and into the Shawsheen River. The most upstream probable point of entry (PPE) area is located 240 feet east of the northeast corner of the building at the edge of the wetland. The eastern portion of the property extends approximately 50 feet into the wetland. A distinct change in vegetation exists between the wetland area and the marsh. The Shawsheen River flows northward through the marsh and is located approximately 675 feet east of the former eastern lagoon area.

Field Sampling

The sample stations SD-01, SD-02, SD-03, SD-04, SD-05, SD-06, SD-07, and SD-08 as described in the START Task Work Plan dated 17 November 1995 were located with the exception of sample stations SD-07 and SD-08. The locations of sample stations SD-07 and SD-08 were revised to further determine the extent of migration of hazardous materials into the wetland. At each location, grab samples were collected at a depth of less than 2 feet.

Sample station SD-01 was located approximately 470 feet east of the PPE on the western bank of the Shawsheen River. At sampling depth, monitoring equipment detected VOCs at concentrations of 100 units above background.

TRIP REPORT

Site Observations/Concerns (Continued)

Sample station SD-02 was located approximately 306 feet east of the PPE in the marsh. A 2-inch ice layer was initially encountered at SD-02 and removed prior to sampling. An organic smell was encountered. At sampling depth, monitoring equipment detected VOCs at concentrations at 10 units above background.

Sample stations SD-03 and SD-04 were located approximately 282 feet east of the northeast corner of the building at the PPE. SD-04 served as a duplicate to SD-03 for quality control purposes. At sampling depth, monitoring equipment detected VOCs at concentrations at 16 units above background.

Sample stations SD-05 and SD-06 were located approximately 446 feet south of SD-01 upstream along Shawsheen River. SD-05 and SD-06 served as reference samples for quality control purposes. At sampling depth, no VOCs above background concentrations were detected using monitoring equipment.

Sample station SD-07 was located approximately 302 feet northeast of the PPE and approximately 96 feet north of SD-02 in the marsh. A layer of ice was initially encountered during the sample collection. An organic smell was encountered. At sampling depth, monitoring equipment detected VOCs at concentrations at 5 units above background.

Sample station SD-08 was located approximately 264 feet north of the PPE and approximately 232 feet northwest of SD-07 in the marsh. An ice layer was encountered and was removed prior to sampling. An organic smell was encountered. At sampling depth, monitoring equipment detected VOCs at concentrations at 31 units above background.

Report prepared by: Jack Padden

Affiliation: START

Date: 22 January 1996

Table 1

Sample Summary: Roy Bros Haulers
Samples Collected by WESTON/START on 19 December 1995

Sample Location No.	Traffic Report No.	Time (hrs)	Remarks	Sample Depth	Sample Source
MATRIX: Sediment					
SD-01	AKZ32 MAHX25	12/19/95 0915	Grab	6 inches	Sand, slight gravel, trace organic material.
SD-02	AKZ33 MAHX26	0940	Grab	6 inches	Sand, slight gravel, organic material, included extra material for MS/MSD.
SD-03	AKZ34 MAHX27	1300	Grab	6 inches	Sand, gravel, organic material.
SD-04	AKZ35 MAHX28	1300	Grab	6 inches	Duplicate of SD-03 for quality control.
SD-05	AKZ36 MAHX29	1155	Grab	6 inches	Collected upstream of SD-01 as a reference sample, sand, silt, slight gravel, trace organic material.
SD-06	MAHX30	1230	Grab	6 inches	Collected upstream of SD-01 as a reference sample, sand, silt, slight gravel, trace organic material.
SD-07	AKZ37 MAHX31	1015	Grab	6 inches	Sand, silt, slight gravel, organic material.
SD-08	AKZ38 MAHX32	1100	Grab	6 inches	Sand, silt, slight gravel, organic material.
MATRIX: Aqueous					
RB-01	AKZ39 MAHX33	1400	Grab	N/A	Sampling equipment rinsate blank for quality control.
TB-01	AKZ40	1400	Grab	N/A	Trip blank for quality control.
MATRIX: Performance Evaluation Samples					
PE-0005078	AKZ41	N/A	Grab	N/A	Performance Evaluation sample for VOCs in water.
PE-0002746	AKZ42	N/A	Grab	N/A	Performance Evaluation sample for SVOCs in water.
PE-0029176	AKZ43	N/A	Grab	N/A	Performance Evaluation sample for pesticides in water.

Table 1

**Sample Summary: Roy Bros Haulers
Samples Collected by WESTON/START on 19 December 1995
(Concluded)**

Sample Location No.	Traffic Report No.	Time (hrs)	Remarks	Sample Depth	Sample Source
PE-TT01969	AKZ44	N/A	Grab	N/A	Performance Evaluation sample for metals in soil.
PE-0028975	MAHX35	N/A	Grab	N/A	Performance Evaluation sample for cyanide in water.
PE-TT1284	MAHX34	N/A	Grab	N/A	Performance Evaluation sample for PCBs in soil.

MS/MSD = Matrix Spike/Matrix Spike Duplicate.

N/A = Not applicable.

ppm = Parts per million.



Roy F. Weston, Inc.
Federal Programs Division
217 Middlesex Turnpike
Burlington, Massachusetts 01803-3308
617-229-6430 • Fax 617-272-3619

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0009

23 January 1996
11098-001-001-1055-40
DC No. A-62

Ms. Sharon M. Hayes
EPA Task Monitor
U.S. EPA, Region I
Superfund Support Section (HSS-CAN-7)
John F. Kennedy Federal Building
Boston, MA 02203-2211

Subject: Trip Report
Roy Bros Haulers
Billerica, Massachusetts
CERCLIS No. MAD009870643
TDD No. 95-06-0006

Dear Ms. Hayes:

Please find enclosed the original and a copy of the Trip Report regarding the Roy Bros Haulers property located in Billerica, Massachusetts. Copies of this Trip Report have been forwarded to the Massachusetts Department of Environmental Protection (MA DEP) and property owner under separate cover.

If you have any questions regarding the contents of this report, please contact the undersigned at (617) 229-6430.

Very truly yours,

ROY F. WESTON, INC.
Region I START

Jack Padden
Site Leader

Jocelyn Boesch
Project Leader

JAP:kl

Enclosures

cc: H. Panchal (MA DEP)
C. Coolen (MA DEP)



Roy F. Weston, Inc.
Federal Programs Division
217 Middlesex Turnpike
Burlington, Massachusetts 01803-3308
617-229-6430 • Fax 617-272-3619

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0009

22 January 1996
11098-001-001-1055-40
DC No. A-62

Mr. Leo Roy
Roy Bros Haulers
764 Boston Road
Billerica, MA 01866

Subject: Trip Report
Roy Bros Haulers
Billerica, Massachusetts
CERCLIS No. MAD009870643
TDD No. 95-06-0006

Dear Mr. Roy:

Please find enclosed a copy of a Trip Report regarding the Roy Bros Haulers property located in Billerica, Massachusetts.

Please contact the undersigned at (617) 229-6430 if you have any questions regarding this report.

Very truly yours,

ROY F. WESTON, INC.
Region I START

Jack Padden
Site Leader

Jocelyn Boesch
Project Leader

JAP:kl
Enclosure

cc: N. Smith (EPA SAM)
H. Panchal (MA DEP)
C. Coolen (MA DEP)